

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
14 June 2001 (14.06.2001)

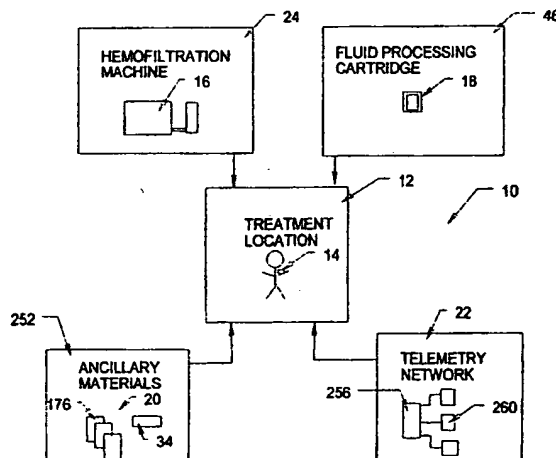
PCT

(10) International Publication Number
WO 01/41832 A3

- (51) International Patent Classification⁷: **A61M 37/00**,
1/14, 1/34, 1/36, B01D 35/00, C02F 9/00, 1/00
- (21) International Application Number: **PCT/US00/42385**
- (22) International Filing Date:
29 November 2000 (29.11.2000)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
09/451,238 29 November 1999 (29.11.1999) US
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- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ,
DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,
NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European
patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,
IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF,
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
- (88) Date of publication of the international search report:
31 January 2002

[Continued on next page]

(54) Title: SYSTEMS AND METHODS FOR PERFORMING FREQUENT HEMOFILTRATION



(57) Abstract: Systems and methods support frequent hemofiltration at a designated treatment location (14) to provide a durable hemofiltration machine (16) at the site, and provide a disposable extracorporeal fluid circuit (18) for installation on the machine. The systems and methods provide a replacement fluid for connection to the extracorporeal fluid circuit. The systems and methods instruct use of the hemofiltration machine, extracorporeal fluid circuit, and replacement fluid at the site. Hemofiltration is carried out by (i) operating the hemofiltration machine to convey an individual's blood through the extracorporeal fluid circuit to a hemofilter at a blood flow rate of at least 300 ml/min to remove waste fluid, (ii) operating the hemofiltration machine to return treated blood, after removal of waste fluid, to the individual, and (iii) operating the hemofiltration machine to supply replacement fluid through the circuit to the individual, and (iv) performing (i), (ii), and (iii) at least four times weekly.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US00/42385

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61M 37/00, 1/14, 1/34, 1/36; B01D 35/00; C02F 9/00, 1/00
US CL : 604/4.01, 5.01, 6.09; 210/252, 256, 258, 650, 739, 929; 422/44

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : Please See Continuation Sheet

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4,494,950 A (FISCHELL) 22 January 1985, entire document.	2, 3, 16, 17
A	US 4,650,458 A (DAHLBERG et al.) 17 March 1987, entire document.	1-22
XU---UY	US 5,762,805 A (TRUITT et al.) 09 June 1998, entire document.	1, 4, 7, 8, 11-13, 15, 18 -----5, 6, 9, 10, 14, 19-22
Y	US 5,863,421 A (PETER, Jr. et al.) 26 January 1999, entire document.	1-22
Y	US 5,871,465 A (VASKO) 16 February 1999, entire document.	1-22

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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Date of the actual completion of the international search

07 June 2001 (07.06.2001)

Date of mailing of the international search report

02 AUG 2001

Name and mailing address of the ISA/US

Commissioner of Patents and Trademarks
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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US00/42385

Continuation of B. FIELDS SEARCHED Item 1: 604/4.01, 5.01, 6.09, 5.02-5.04, 6.1, 6.11, 6.15, 6.16; 210/252, 256, 258, 650, 739, 929, 645-57, 651, 741, 767, 781-82, 793-94, 800-01, 805, 85, 87-90, 97-98, 103, 138-40, 253-257.2, 258-61, 269, 275, 282, 287-89, 302, 321.6, 321.71-.72, 322, 323.1, 348-49, 416.1, 418, 420, 424, 427, 428; 422/44, 48, 68.1, 82.13

Continuation of B. FIELDS SEARCHED Item 3: EAST filtration, blood, telemetry, network, remote system, modem, remote control, automated, authorization, replacement fluid